

AMENDMENTS TO THE CLAIMS:

1-4. (Canceled)

5. (Currently amended) DNA having embedded information, comprising:
a gene portion including a predetermined gene ~~genetic information~~;
a portion which is [[,]] other than said gene portion, ~~including no genetic information~~;
and
a nucleotide sequence which is not naturally occurring in said DNA and which is
embedded in said portion which is other than said gene portion ~~including no genetic information~~,
and comprises source identification information for identifying a source of said predetermined
gene ~~genetic information~~ in said gene portion.

6-7. (Canceled)

8. (Currently amended) DNA comprising:
at least one special sequence which is not naturally occurring in said DNA and that is
intentionally designed and is included as a part of a nucleotide sequence,
wherein said at least one special sequence comprises source identification information for
identifying the source of a predetermined gene which is ~~genetic information~~ included in a gene
portion of said DNA, and
wherein said at least one special sequence is embedded in said DNA.

9. (Previously presented) The DNA according to claim 8, wherein said at least one special
sequence comprises a plurality of sequences embedded at predetermined locations of said DNA.

10. (Previously presented) The DNA according to claim 8, wherein said at least one special
sequence comprises a plurality of sequences having a plurality of types of patterns embedded at

predetermined locations of said DNA.

11. (Currently amended) A nucleotide sequence in DNA, comprising:
source identification information for identifying a source of a predetermined gene in a gene portion of ~~genetic information~~ in said DNA,
wherein said information is embedded in said DNA and is not naturally occurring in said DNA.
12. (Currently amended) A cell in an organism, said cell having DNA comprising:
a gene portion including a predetermined gene ~~genetic information~~;
a portion which is other than said gene portion; and
a nucleotide sequence which is not naturally occurring in said DNA and which is embedded in said portion other than said gene portion, and comprises source identification information for identifying a source of said predetermined gene ~~genetic information~~ in said gene portion.
- 13-14. (Canceled)
15. (Currently amended) DNA comprising:
a first portion comprising a predetermined gene ~~genetic information~~;
a second portion which is other than said first portion; and
at least one nucleotide sequence which is not naturally occurring in said DNA and is embedded in said second portion, for identifying a source of said predetermined gene ~~genetic information~~ in said first portion.
16. (Canceled)
17. (Currently amended) The DNA according to claim 15, wherein said predetermined gene

~~genetic information~~ comprises a value-added gene that is provided by one of selective breeding, cultivation, and gene manipulation.

18. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence comprises a plurality of sequences having a plurality of types of patterns embedded at predetermined locations in said second portion.

19. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence comprises a plurality of nucleotide sequences.

20. (Previously presented) The DNA according to claim 19, wherein said plurality of nucleotide sequences comprises different nucleotide sequences.

21. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is copy tolerant.

22. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is embedded at a random location in said second portion.

23. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence and is not naturally generated through gene mutation.

24. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence comprises one of a restrictive enzyme identification sequence and a promoter.

25. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is detectable using a nucleotide sequence that is complementary to said at least one nucleotide sequence.

26. (Previously presented) The DNA according to claim 15, wherein said at least one nucleotide sequence is embedded at a predetermined location in said second portion.

27. (Previously presented) The DNA according to claim 15, wherein said nucleotide sequence is correlated with said source identification information.

28.- 29.(Canceled)

30. (Previously presented) The DNA according to claim 5, wherein said nucleotide sequence comprises a watermark sequence.

31. (New) The DNA according to claim 5, wherein said predetermined gene comprises a protein code sequence and transcription control information for said sequence.

32. (New) The DNA according to claim 5, wherein said portion which is other than said gene portion comprises a portion of said DNA which does not store a protein code sequence and transcription control information for said sequence.

33. (New) The DNA according to claim 5, wherein said predetermined gene comprises a gene which is produced by artificial, intentional manipulation.

34. (New) The DNA according to claim 5, wherein said gene portion is transcribed into RNA, and said portion other than said gene portion is not transcribed into RNA.